JUID-1662 POI/477 2 5 JAN 2002

ATTORNEY'S DOCKET NUMBER FORM PTO-1390 (Modified) REV 11-2000) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE TRANSMITTAL LETTER TO THE UNITED STATES **RBL0085** U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR DESIGNATED/ELECTED OFFICE (DO/EO/US) 048114CONCERNING A FILING UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PCT/DE00/02454 26 July 2000 (26/07/2000) 27 July 1999 (27/07/1999) TITLE OF INVENTION METHOD FOR AUTOMATICALLY ADAPTING TO THE CAPABILITIES OF A DATA TRANSMITTING TERMINAL A DEVICE SUPPLYING DATA TO SAID TERMINAL REQUESTING THE DATA APPLICANT(S) FOR DO/EO/US HILLEBRAND, Rainer Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include itens (5), (6), (9) and (24) indicated below. 4. The US has been elected by the expiration of 19 months from the priority date (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c) (2)) a. 🛛 is attached hereto (required only if not communicated by the International Bureau). b. has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6.  $\mathbf{X}$ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a.  $\times$ is attached hereto. b. □ has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. b. c. have not been made; however, the time limit for making such amendments has NOT expired. d. 🗆 have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9.  $\mathbf{X}$ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10  $\boxtimes$ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).  $\boxtimes$ A copy of the International Preliminary Examination Report (PCT/IPEA/409). 11.  $\boxtimes$ 12 A copy of the International Search Report (PCT/ISA/210). Items 13 to 20 below concern document(s) or information included: X 13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14.  $\mathbf{X}$ 15. A FIRST preliminary amendment. 16. A SECOND or SUBSEQUENT preliminary amendment. 17. A substitute specification. 18. A change of power of attorney and/or address letter. 19. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825. 20. A second copy of the published international application under 35 U.S.C. 154(d)(4). 21. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 22.  $\boxtimes$ Certificate of Mailing by Express Mail 23.  $\boxtimes$ Other items or information: 102457 Check No.

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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of (a)	l .
)	Group:
Serial No.	•
Filed:	Examiner:
Title: METHOD FOR AUTOMATICALLY	(
ADAPTING TO THE CAPABILITIES OF A	ı
DATA TRANSMITTING TERMINAL A	
DEVICE SUPPLYING DATA TO SAID (	
TERMINAL REQUESTING THE DATA	

# PRELIMINARY AMENDMENT DELETING MULTIPLE DEPENDENT CLAIMS

**Assistant Commissioner for Patents** 

Washington, D.C. 20231

Sir:

Prior to calculating the filing fee, please enter the following amendments to the application.

## IN THE CLAIMS

In claim 3, line 1, delete "or 2".

In claim 4, line 1, delete "one of claims 1 to 3" and substitute therefor --claim 1--.

Please add the following new claims:

- --5. Process according to claim 2, characterized in that the information data are transmitted to the data-preparing device over a device engaged between the data-requesting device and the data-preparing device.
- 6. Process according to claim 2, characterized in that the requested data are stored in a central data bank of the data-preparing device and, on call, are formatted by a formatting device into the predetermined data format and transmitted to the data-requesting device.

## **PATENT**

Process according to claim 3, characterized in that the requested data are stored in 7. a central data bank of the data-preparing device and, on call, are formatted by a formatting device into the predetermined data format and transmitted to the data-requesting device.--

Respectfully submitted,

John F. Noffman

Registration No. 26,280

Attorney for Applicant

Date: January 25, 2002

JFH/pmp

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10/048114 581 Rec'd PCT/FT 25 JAN 2002

translation

WO 01/08097

PCT/DE00.02454

METHOD FOR AUTOMATICALLY ADAPTING
TO THE CAPABILITIES OF A DATA-TRANSMITTING
TERMINAL A DEVICE SUPPLYING DATA TO SAID
TERMINAL REQUESTING THE DATA

[0001] The invention relates to a process for the automatic adaptation of the data to be transferred to a data-requesting device, to the capabilities of this terminal.

In today's data communication networks there exist terminals with different displays, input apparatuses and computer performances. Displays differ above all in the color depth, resolution, and size. Input apparatuses can be, for example, keyboards or contact-sensitive surfaces. When data are transferred from a data-preparing device to a terminal, it is important, for as short as possible a transfer time of the data, that the data volume to be transferred at a given band width be as small as possible. Since, however, it is not known to the sending device what properties the end terminal possesses, the data and therewith the data volume are not adapted to the properties of the end terminal. To an end terminal with a display with a low resolution and black-andwhite representation there are sent, for example, the same data as to an end terminal with a high resolution and a plurality of representable colors.

[0003] This leads to the result that data are transferred which cannot be processed in the end terminal by reason of the latter's capabilities. Resources of the transfer media, of the sending devices, and of the receiving end terminal are wasted.

[0004] The problem of the present invention lies, therefore, in supplying a process for the automatic adaptation of the data to be transferred from a data-preparing device to a data-requesting device, to the capabilities of the data-requesting device, which avoids the above-mentioned

disadvantages.

[0005] The solution of the problem is achieved by the features given in Claim 1.

[0006] According to the invention, in the data transfer a reduction of the resource-wasting becomes possible by the means that the data-preparing device receives information about the capabilities of the receiving end terminal, in order to transmit the data to the data-receiving terminal in correspondence to the prescribed capabilities.

[0007] The advantage of this process for the operator of the data- preparing device lies, inter alia, in the lower required computing performance of the sending device and, accordingly, the lower acquisition and maintenance costs. According to the transfer technique, the operator's transmission costs are reduced.

[0008] The advantages of this process for the user of the data-requesting device lie, inter alia, in the shorter data transmission time and in the lower transmission costs. Since, according to this process, the end terminal can also adapt the data to the display of the receiving device, the user can also obtain a representation of the data adapted to the display. For example, textual information data which are otherwise contained in graphics can, in the case of an end terminal with mere text representation, be sent from the sending device to the end terminal as text, and brought there into display.

[0009] In the following the invention is described in detail with the aid of an example of execution with reference to a drawing figure. From the drawing and its description, there are yielded further features and advantages of the invention.

[0010] In Fig. 1 a scenario is described in which this process is used for the automatic adaptation of the data to be transferred from a data-preparing device to a data-requesting device, to the capabilities of this end terminal.

[0011] By means of three different apparatuses 1, 2 and 3, a user requests information from a WWW-server 5. In each

end terminal there is installed a WWW-browser for this.

[0012] In the end terminal 1, in this case the data-receiving device, there is a Personal Digital Assistant (PDA). The display of the PDA has a resolution of 160 x 160 pixels, in a black-and-white representation with pure text representation possibility. The end terminal 2 is a Notebook with a display with the resolution of  $640 \times 480$  pixels, which can represent 256 colors and graphics.

[0013] The display of the desktop computer 3 has a resolution of 1600 x 1200 pixels, which can represent about 16 million colors and graphics.

# [0014] Example 1:

The user, over a user interface such as, for example, a keyboard, enters the address http://www.info.com/ of the WWW-server 5 (data-preparing device) into the WWW-browser, to request the information data belonging to this address from the server 5. The WWW-browser establishes a connection to the WWW-server 5, and communicates to the WWW-server by which address information data are requested.

[0015] According to the invention there are further conveyed to the WWW-server 5 information data as to which capabilities the end terminal 1 possesses. To these capabilities there belong, inter alia, the resolution of the display and the number of representable colors. In the present case the end terminal 1 will instruct the WWW-server 5 that it should communicate the information data with a resolution of 160 x 160 pixels in black-and-white and in pure text representation. The standard resolutions and color depths can be correspondingly coded for this, for example with 2-place numbers so that, for example, only one byte suffices for the transmission of the information.

[0016] The WWW-server 5 reports/communicates the address and capabilities of the utilization (device) 6. The utilization (device) 6 requests from the information data bank 7 the information data belonging to the address http://www.info.com/ and formats these in correspondence to the capabilities of the end terminal 1. Since the end terminal 1

can represent only text, the application (device) generates only textual information in black-and-white representation. Graphics are not generated or cannot be read from the information data bank. The application (device) 6 delivers the data to the server 5 which sends these to the WWW-browser in 1. The WWW-browser interprets the formatting and makes the information data available in the display of the end terminal 1.

# [0017] Example 2:

The user uses, in contrast to example 1, a notebook 2. As described in example 1, the WWW-server 5 obtains the information data about the capabilities of the end terminal 2 and forwards these data to the utilization (device) 6. Since the end terminal can represent graphics with a maximum of 256 colors, the utilization (device) 6 generates or conveys from the information data bank 7, graphics with a maximal color depth of 256 colors, which insofar as possible do not exceed 640 x 480 pixels. For the coloration of text information data, there are chosen only colors from a given color pallet with 256 colors standing for selection. The utilization (device) 6 delivers the data to the server 5, which sends these to the WWbrowser in the end terminal 2. The WWW- browser interprets the formatting and represents the information data in the display of the notebook 2. In comparison to example 1, because of the color information data and of the graphics, a larger data volume must be transmitted between the WWW-server and the end terminal. However, the size and color depth (256 colors) are utilized.

#### [0018] Example 3:

In contrast to examples 1 and 2, the user uses a desktop computer 3. Since, as in examples 1 and 2, the capabilities of the end terminal 3 are known by the utilization (device) 6, the utilization (device) 6 generates or conveys from the information data bank 7 graphics with a maximal color depth of 16 million colors, which insofar as possible do not exceed 1600 x 1200 pixels. For the coloration of text information data, there are chosen colors from a color pallet with 16 million

colors standing for selection. The utilization (device) 6 delivers the data to the server 5, which sends these to the WWW-browser in the end terminal 3. The WWW-browser interprets the formatting and represents the information data in the display of the desktop computer 3. In comparison to examples 1 and 2, because of the color and graphics information data, a greater data volume must be transmitted between the WWW-server and the end terminal. The size and color depth (16 million colors) of the display, however, are utilized.

[0019] Obviously the invention also comprises end terminals that can process several different display formats. In this case, for example, a list of usable display formats can be communicated to the data-preparing device. The latter then, and according to availability, selects the best-suited display format.

[0020] Further, the invention is not restricted to a utilization in the internet, but is usable for every type of data transfer in arbitrary data networks, thus, for example, also in the data transfer between subscribers of the digital mobile radio network.

#### Patent Claims

1. Process for the automatic adaptation of the data to be transferred from a data-preparing device to a data-requesting device, to the capabilities of this latter device.

Characterized in that the data-preparing device receives information about the capabilities of the data-requesting device, in which the information data contain statements in regard to the resolution and color depth workable by the display of the data-requesting device, and the data to be transferred are transmitted to the data-requesting device in correspondence to the pre-determined capabilities.

- 2. Process according to claim 1, <u>characterized in that</u> the information data from the data-requesting device are transmitted to the data-preparing device.
- 3. Process according to claim 1 or 2, <u>characterized in that</u> the information data are transmitted to the data-preparing device through a device engaged between the data-requesting device and the data-preparing device.
- 4. Process according to claims 1 to 3, characterized in that the data to be requested are stored in a central data bank of the data-preparing device and, on call are formatted by the formatting device into the prescribed data format and transmitted to the data-requesting device.

10/048114 531 Rec'd PCT/FT 25 JAN 2002

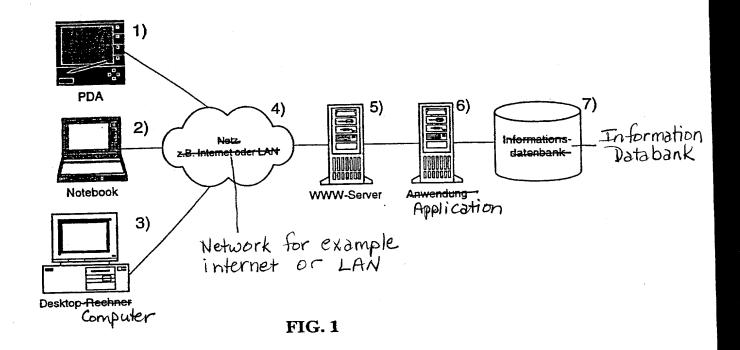
TRANSLATION

METHOD FOR AUTOMATICALLY ADAPTING TO THE CAPABILITIES OF A DATA-TRANSMITTING TERMINAL A DEVICE SUPPLYING DATA TO SAID TERMINAL REQUESTING THE DATA

## Abstract

The invention concerns a method for automatically adapting to the capabilities of a data transmitting terminal a device supplying data to said terminal requesting the data. Said method is characterized in that the data supplying device receives information concerning the capabilities of the device requesting data to send to the latter the data to be transmitted in accordance with the specified capabilities.

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# Declaration and Power of Attorney for Patent Application Erklärung für Patentanmeldungen mit Vollmacht

# German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:	As a below named inventor, I hereby declare that:
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Wird:	METHOD FOR AUTOMATICALLY ADAPTING TO THE CAPABILITIES OF A DATA TRANSMITTING TERMINAL A DEVICE SUPPLYING DATA TO SAID TERMINAL REQUESTING THE DATA
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Ich bestätige hiermit, daß ich den Inhalt der oben angegebenen Patentanmeldung, einschließlich der Ansprüche, die eventuell durch einen oben erwähnten Zusatzantrag abgeändert wurde, durchgesehen und verstanden habe.	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.56 von Belang sind.	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.
Informationen an, die zur Prüfung der Patentfähigkeit in Einklang	to patentability as defined in Title 37, Code of Federa

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Prior Foreign Applications (Frühere ausländische Anmeldungen)	Priority Not Claimed Priorität nicht beansprucht
199 34 787.5 Germany (Number) (Country) (Nummer) (Land)	27 July 1999 (Day/Month/Year Filed) (Tag/Monat/Jahr der Anmeldung)
(Number) (Country) (Nummer) (Land)	(Day/Month/Year Filed) (Tag/Monat/Jahr der Anmeldung)
lett beanspruche hiermit Prioritätsvorteile unter Title 35, US-Code, \$\frac{1}{2}\$ 19(e) aller US-Hilfsanmeldungen wie unten aufgezählt.	I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.
[Application No.) (Filing Date) (Aktenzeichen) (Anmeldetag)  [Application No.) (Filing Date)	
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DE00/02454 26 July 2000 (Application No.) (Filing Date) (Aktenzeichen) (Anmeldetag)	Published (Status) (patented, pending, abandoned) (Status) (patentiert, schwebend, aufgegeben)

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

Registrationsnummer(n) auflisten)

hinzuzufügen.)

und John F. Hoffman, Regis. No. 26,280; Anthony Niewyk, Regis. No. 24,871; Michael D. Smith, Regis. No. 40,181; Michael S. Gzybowski, Regis. No. 32,816; Michael D. Schwartz, Regis No. 44,326; Adam F. Cox, Regis No. 46,644; Abigail M. Butler, Regis. No. 48,238, Thomas A. Adams, Regis. No. 48,230; and Kimberly J. Paulus, Regis. No. 48,358; all/of BAKER & DANIELS, 111 East Wayne Street, Suite 800, Fort Wayne, Indiana 46802

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· · · · · · · · · · · · · · · · · · ·	John F. Hoffman (219) 424-8000				
Vor- und Zuname des einzigen oder ersten Erfinders	Full name of sole or first inventor Rainer Hillebrand				
Unterschrift des Erfinders Datum	Inventor's signature Date Paire Hill 2002-01-31				
Wohnsitz	Residence Greven, Germany				
Staatsangehörigkeit	Citizenship German				
Postanschrift	Post Office Address Falkenstrasse 11 D-48268 Greven GERMANY				
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Unterschrift des zweiten Erfinders Datum	Second Inventor's signature Date				
Wohnsitz	Residence				
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